Applicant

: Claire Hartmann-Thompson: FUNCTIONALIZED PARTICLES FOR COMPOSITE SENSORS For

Atty Docket No. Express Mail No. Sheet 1 of 3 : MIC35 P-333 : EL519294044US

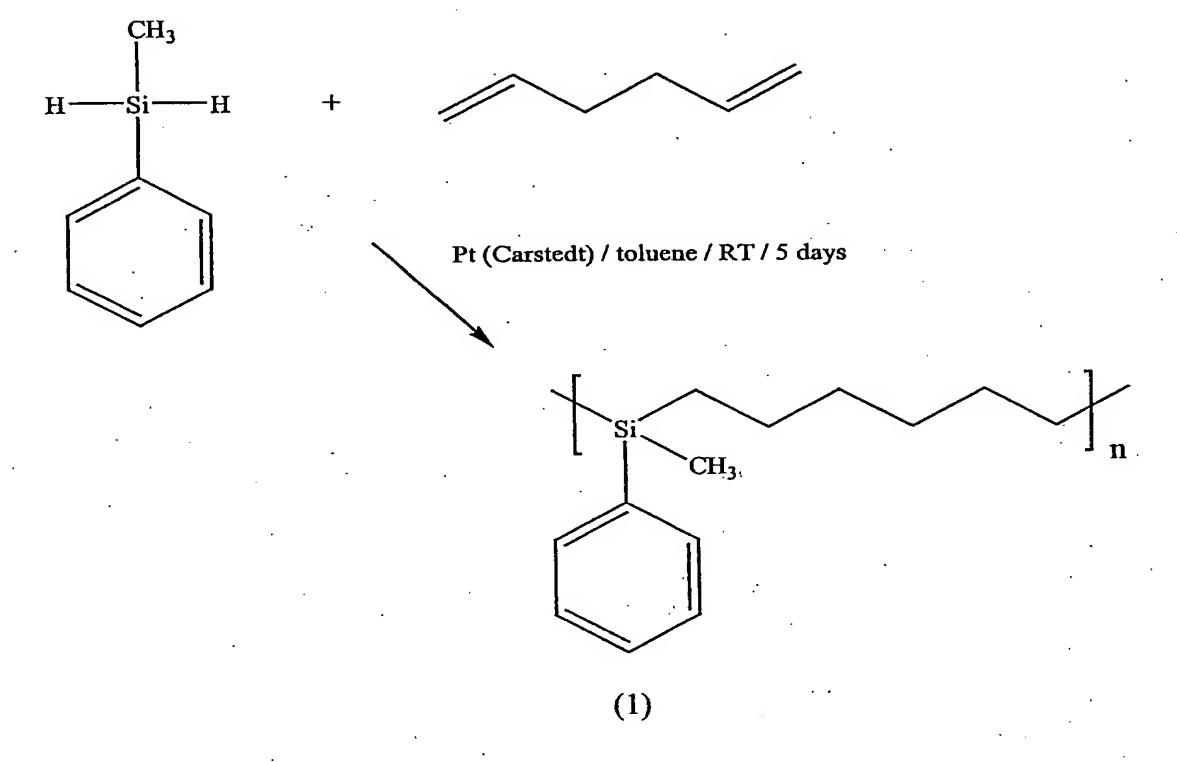


FIG. 1

Applicant

: Claire Hartmann-Thompson

For

: FUNCTIONALIZED PARTICLES FOR COMPOSITE SENSORS

Atty Docket No. Express Mail No. Sheet 2 of 3 : MIC35 P-333 . : EL519294044US

HMe<sub>2</sub>SiO, OSiMe<sub>2</sub>H HMe2SiO OSiMe<sub>2</sub>H HMe SiO OSiMe<sub>2</sub>H Ar(CH<sub>2</sub>)<sub>3</sub>Me<sub>2</sub>SiO OSiMe<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>Ar OSiMe<sub>2</sub>H HMe<sub>2</sub>SiO A1(CH2)3Me2SiO. OSiMe<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>Ar Ar(CH2)3Me SiO OSiMe<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>Ar Toluene / Pt (Carstedt) 80 deg C / 24 hrs OSiMe<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>Ar Ar(CH<sub>2</sub>)<sub>3</sub>Me<sub>2</sub>SiO

$$Ar = \begin{pmatrix} F_3C & CF_3 & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

## FIG. 2

Applicant

: Claire Hartmann-Thompson: FUNCTIONALIZED PARTICLES FOR COMPOSITE SENSORS For

Atty Docket No. Express Mail No. : MIC35 P-333 : EL519294044US

Sheet 3 of 3

FIG. 4